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(74) Agent: **RICHERS, MCKENZIE & HERBERT LLP**; 2
Bloor Street East, Suite 1800, Toronto, Ontario M4W 3J5
(CA).

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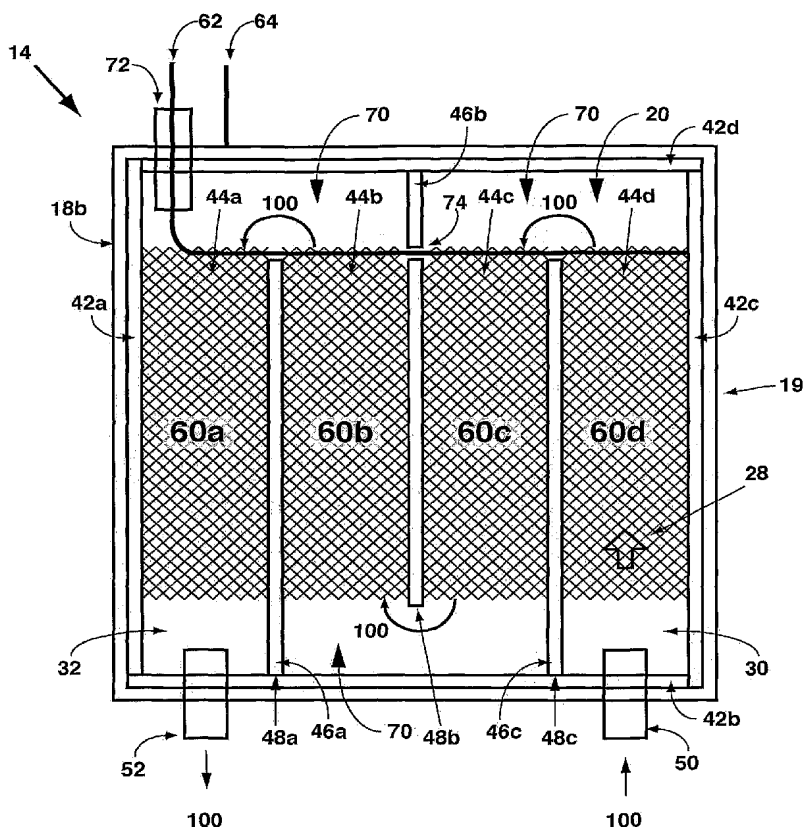
(71) Applicants and

(72) Inventors: **PHILLIPS, Stanley** [CA/CA]; 24 Devondale
Street, Courtice, Ontario L1E 1S1 (CA). **PHILLIPS,
Shirley** [CA/CA]; 24 Devondale Street, Courtice, Ontario
L1E 1S1 (CA). **PHILLIPS, Andrew** [CA/CA]; 5 Glen-
abbey Drive, Courtice, Ontario L1E 1B5 (CA).

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(54) Title: APPARATUS FOR GENERATING OZONE AND/OR O₃ USING A HIGH ENERGY PLASMA DISCHARGE



(57) Abstract: An electro chemical conversion cell that can break down certain gasses to provide ozone and monovalent oxygen from a supplied volume of a suitable O₂-containing gas. The conversion cell is provided with at least one metal mesh electrode within a generator reaction chamber, and a power supply which is adapted to supply a high alternating electric current voltage to at least partially break-down O₂ in the input gas to yield ozone. A fluid flow passage extends through the reaction chamber as a generally elongated passage through the reaction cavity. The fluid flow passage extends from an upstream end, where the O₂-containing gas is initially supplied into the housing, to a downstream end where treated gas either flows outwardly therefrom under pressure or is evacuated from the housing. In a simplified construction, the fluid flow passage is delineated by a series of electrically insulating plates and/or spacers which are used to partition the reaction cavity.



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